BRUHAT BANGALORE MAHANAGARA PALIKE

Yelahanka Division

Comparitive Statement

Name of work :Drilling of borewells & Providing pipe line and supply of drinking water to public in Harohalli, Nagenahalli, Kenchanahalli, Doddabettahalli, Chikkabettahalli and Ananthpura village areas in ward No 01 and Ward No 03 of Yelahanka Division.

Estimate cost:-30000000/-

Approved amount:- :25403744-

Agency:Sri B.P MAHESH(M/S SRI SAI MANJUNATHA ENTREPRISES BANGALORE

Tender premium: -0.55%

Sl. No.	Description	Unit	Qty. as per Schedule-B			Total Qty as per Executed	Qty upto 125%			Qty above 125%			Total Amount as per Executed	Savings	Excess	Remarks
			Qty	Rate	Amount		QTY	Rate	Amount	QTY	Rate	Amount				
1	Geophysical investigation at site for sinking borewells for Providing drinking water to the habitation either through the Hand Pump MWS or P.W.S.S, by vertical electrical sounding by adopting Venner or Schlumbergers's method, including reconnaissance survey of geological formation. Geophysical investigation of existing ground water in the vicinity, its quality, quantity and acceptability of the users, indicating the location of the site, recommended depth of casing pipe required to seal the top unconsolidated formation including an extra depth of 1.0 metre in consolidated formation for proper seating of casing pipe, depth of drilling required to cover full depth of aquifer proposed to be tapped, probable yield and other information required including transportation of instruments and accessories to work site, engaging technical personal and labour required etc. NOTE: 1) Additional rate on item 1&2 is allowed for drilling in over burden and fixing Casing pipes beyond 20 M (for fixing Casing pipes only) a) Above 20 M and upto 30 M - 15%, b) Above 30 M - 30% (Measurement of overburden is restricted to the	Each BW	20.00	5784.98	115699.60	25.00	25.00	5784.98	144624.50	0.00	5784.98	0.00	144624.50	0.00	28924.90	As per site condition
2	Sinking of Borewell of 165mm dia clear using super fast hydraulic rig of capacity 300 PSIG & above 1100 CMF & above in all strata including over burdern upto 20 m. Fixing of casing pipes, collars and cap with necessary cutting, threading and welding including transportation of rig and supporting vehicle, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimum working of compressor for one hour (Excluding cost of casing pipes, collars, cap etc., complete)	Rmtr	1000.00	404.77	404770.00	1250.00	1250.00	404.77	505962.50	0.00	404.77	0.00	505962.50	0.00	101192.50	As per site condition
3	50-100mtrs	Rmtr	1000.00	507.61	507610.00	1250.00	1250.00	507.61	634512.50	0.00	507.61	0.00	634512.50	0.00	126902.50	As per site condition
4	100-150mtrs	Rmtr	1000.00	539.33	539330.00	1250.00	1250.00	539.33	674162.50	0.00	539.33	0.00	674162.50	0.00	134832.50	As per site condition
5	150-200mtrs	Rmtr	1000.00	625.76	625760.00	1250.00	1250.00	625.76	782200.00	0.00	625.76	0.00	782200.00	0.00	156440.00	As per site condition
6	200-250mtrs	Rmtr	1000.00	734.06	734060.00	1250.00	1250.00	734.06	917575.00	0.00	734.06	0.00	917575.00	0.00	183515.00	As per site condition
7	250-300mtrs	Rmtr	1000.00	809.55	809550.00	1214.00	1214.00	809.55	982793.70	0.00	809.55	0.00	982793.70	0.00	173243.70	As per site condition
8	300-350mtrs	Rmtr	1000.00	949.58	949580.00	1051.00	1051.00	949.58	998008.58	0.00	949.58	0.00	998008.58	0.00	48428.58	As per site condition
9	350-400mtrs	Rmtr	1000.00	1025.06	1025060.00	240.00	240.00	1025.06	246014.40	0.00	1025.06	0.00	246014.40	779045.60	0.00	As per site condition

... the stipulated time for the completion of the work is **180 days** from the date of issuing work order.

Sl. No.	Description	Unit	Qty. as per Schedule-B			Total Qty as per Executed	Qty upto 125%			Qty above 125%			Total Amount as per Executed	Savings	Excess	Remarks
			Qty	Rate	Amount		QTY	Rate	Amount	QTY	Rate	Amount				
10	Supply of ISI mark 175mm nominal bore,plain and steel casing pipe grade of steel Fe 410 of wall thickness conforming to IS 4270-2001 and latest ammendments, electrical resistance welded steel tubes, material and conforming to IS 1387-1993 and manufactured by basic open hearth electric or basic oxygen process in random length of 5-7m both ends.threaded conforming to IS 554-1985 one end fixed with socket conforming to IS 4270-2001 and the other end with screwed pipes all shall be responsibaly free from defects. The tubes shall be responsible straight end should be with ISI marking weighing 25.10kg/m.prices include Collar-Medium duty..	Rmtr	1200.00	2114.67	2537604.00	1435.00	1435.00	2114.67	3034551.45	0.00	2114.67	0.00	3034551.45	0.00	496947.45	As per site condition
11	PVC pipes of 10 Kg/cm2 for 200mm	m	240.00	1263.55	303252.00	240.00	240.00	1263.55	303252.00	0.00	1263.55	0.00	303252.00	0.00	0.00	As per site condition
12	Providing and laying at site of work MS casing caps as per IS 1239 (partII) 1982 with all latest amendments if any for any dia. The thickness of plate used for covering one end shall be 3mm (minimum). The dimensions of caps and colars shall be strictly as per IS 1239 (Part-II) 1982 with all amendments including cost of material and labour charges for fixing, if any etc. complete with all lead and lifts and as directed by the Engineer in charge	Each	20.00	179.41	3588.20	25.00	25.00	179.41	4485.25	0.00	179.41	0.00	4485.25	0.00	897.05	As per site condition
13	Providing,supplying to work site, Submersible Pump Set of 150mm dia suitable for bore well and confirming to IS 8034-2000;3Phase, SS Bowl & Impeller with Low volt Motor as per specifications,as per necessary ammendments and instructions of engineer incharge of work. 17.50 HP - 120 LPM @ 308 m = 26 STG Outlet Dia - 2.00" and as per the directions of the Engineer-in-charge of the work	Each	20.00	75861.16	1517223.20	22.00	22.00	75861.16	1668945.52	0.00	75861.16	0.00	1668945.52	0.00	151722.32	As per site condition
14	Supply and delivery of galvanized mild steel tubes of 6mtr standard length heavy duty (C Class) as per IS 1239 (Part-I) 1990 with latest amendments with ISI Mark (one end fitted with Heavy Duty collar and other end fitted with protective cover) and as per the directions of the Engineer-in-charge of the work	Each	1100.00	3336.65	3670315.00	1129.00	1129.00	3336.65	3767077.85	0.00	3336.65	0.00	3767077.85	0.00	96762.85	As per site condition
15	Supply and delivery at site wrought middle steel (galvanized) GI union confirming to IS 1239-II, 1991 with latest amendments if any. For 50 mm dia GI Union	Each	20.00	292.09	5841.80	22.00	22.00	292.09	6425.98	0.00	292.09	0.00	6425.98	0.00	584.18	As per site condition
16	Providing wrought mild steel (galvanized) GI collar confirming to IS 1239-II, 1991 with latest amendments if any For 50 mm dia GI collar	Each	1120.00	292.09	327140.80	1129.00	1129.00	292.09	329769.61	0.00	292.09	0.00	329769.61	0.00	2628.81	As per site condition
17	Supply and delivery at site wrought middle steel (galvanized) 50 mm dia GI hexagonal nipple confirming to IS 1239-II, 1991 with latest amendments if any.	Each	40.00	233.02	9320.80	44.00	44.00	233.02	10252.88	0.00	233.02	0.00	10252.88	0.00	932.08	As per site condition
18	Supply and delivery at site wrought middle steel (galvanized) 50 mm dia GI elbow confirming to IS 1239-II, 1991 with latest amendments if any for:	Each	60.00	292.09	17525.40	66.00	66.00	292.09	19277.94	0.00	292.09	0.00	19277.94	0.00	1752.54	As per site condition
19	Supplying and drawing 3 core flat PVC sheathed submersible pump cable manufactured with electrolytic grade copper with flexible copper with low resistance conductor confirming to13:8130-1984 and virgin grade PVC insulation and powder coating extruded PVC sheathed suitable for working voltage upto 1100 V as per IS-694:2010. 3C x 6 mm2 and as per the directions of the Engineer-in-charge of the work	Mtr	13600.00	243.66	3313776.00	13632.00	13632.00	243.66	3321573.12	0.00	243.66	0.00	3321573.12	0.00	7797.12	As per site condition

days from the date of issuing work order.

... completion of the work is 180

Sl. No.	Description	Unit	Qty. as per Schedule-B			Total Qty as per Executed	Qty upto 125%			Qty above 125%			Total Amount as per Executed	Savings	Excess	Remarks
			Qty	Rate	Amount		QTY	Rate	Amount	QTY	Rate	Amount				
20	Labour charges for Erection, Electrification and commissioning of Pump sets, including aligning and balancing of all items including supply and erection of two pair of supporting clamps, bore well caps, cable clips and water tight gland cable protectors, bolts, nuts, valve and gauges,tools and equipments etc., involved in the job as per specifications, with necessary tests as per specifications, with testing of as per instructions and as per the directions of the Engineer-in-charge of the work	Job	20.00	7110.89	142217.80	22.00	22.00	7110.89	156439.58	0.00	7110.89	0.00	156439.58	0.00	14221.78	As per site condition
21	Labour charges for erection of outdoor type panel board and meter boardunits with all necessary materials and labour, tools and equipments including providing cement concrete foundation bed etc., complete as per specification, with testing of as per instructions and as per the directions of the Engineer-in-charge of the work	Job	20.00	1586.28	31725.60	22.00	22.00	1586.28	34898.16	0.00	1586.28	0.00	34898.16	0.00	3172.56	As per site condition
22	1.1 kV, XLPE or Heat resistant PVC insulated, PVC exutruted Inner Seath Armoured LTUG Cable as per IS-1554 (Part-1) or IS-7098 Part-1, Armouring strip thickness and resistivity as per IS-3975 16 Sqmm, 4 Core, (11 GI Strips - 4 x 0.8 mm)	km	0.90	141066.12	126959.51	0.38	0.38	141066.12	53859.04	0.00	141066.12	0.00	53859.04	73100.46	0.00	As per site condition
23	LABOUR For Stringing of 1.1 kV grade Aerial Bunched 3 Core cable of XLPE insulation of size (3x95) (Phase Conductor) + (1x70) (Insulated Messenger Neutral) + (1x16) (Street Light Control) (	km	0.90	32927.89	29635.10	0.38	0.38	32927.89	12571.87	0.00	32927.89	0.00	12571.87	17063.23	0.00	As per site condition
24	Earthing: Supplying and fixing and wiring earth electrode for grounding circuits IC cutouts and other equipments on the meter board in the pit. The pits should be filled up with equal proportion of salt and charcoal 150mm around the pipe to complete depth. The connection from the pipe to the conduits etc. is to established through GI wire of sizes as per clause 7.3.3 of IS 732 using 12mm bolts, nuts, washers and check nuts, the pipe shall have 16 through holes of 12mm dia and as per the directions of the Engineer-in-charge of the work	Job	20.00	4102.44	82048.80	22.00	22.00	4102.44	90253.68	0.00	4102.44	0.00	90253.68	0.00	8204.88	As per site condition
25	Providing,Supplying and fixing suitable for 1.1 KV class UG cable filled with necessary bitumen/insulating compound complete with terminals, clamps,bolts,nuts and washers etc. with necessary materials and labour tools and equipments as per instructions of engineer incharge of work. 3x6 Sqm and as per the directions of the Engineer-in-charge of the work	Each	20.00	410.24	8204.80	22.00	22.00	410.24	9025.28	0.00	410.24	0.00	9025.28	0.00	820.48	As per site condition
26	Supply and fixing polished wood board made of not less than 15mm thick plank on both sides of not more than 2 pieces and fixing the same to the wall using tapered inverted wooden plugs screws 20" x 20" x 2.5"	Nos	20.00	324.35	6487.00	22.00	22.00	324.35	7135.70	0.00	324.35	0.00	7135.70	0.00	648.70	As per site condition
27	Supplying fully automatic star-delta starter unit push button type with suitable wires, 3 contactors, one adjustable thermal timer mounted on a common base plate held in steel enclosure for use on 400/440 V 3 phase and wired after fixing to the existing wooden board for motor Above 12.5 HP upto 25 HP (	Nos	20.00	8716.06	174321.20	22.00	22.00	8716.06	191753.32	0.00	8716.06	0.00	191753.32	0.00	17432.12	As per site condition
28	Supply and delivery at site of brand new best make gate valve as per IS 778/1984 with ISI Mark and as per its latest amendments Size 50 mm,	Each	100.00	1367.48	136748.00	109.00	109.00	1367.48	149055.32	0.00	1367.48	0.00	149055.32	0.00	12307.32	As per site condition
29	Supply and delivery at site of brand new best make non-return valve as per IS 778/1984 with ISI Mark and as per its latest amendments Size 50 mm	Each	100.00	1367.48	136748.00	109.00	109.00	1367.48	149055.32	0.00	1367.48	0.00	149055.32	0.00	12307.32	As per site condition

...from the date of issuing work order.

...for the completion of the work is 180

Sl. No.	Description	Unit	Qty. as per Schedule-B			Total Qty as per Executed	Qty upto 125%			Qty above 125%			Total Amount as per Executed	Savings	Excess	Remarks
			Qty	Rate	Amount		QTY	Rate	Amount	QTY	Rate	Amount				
30	Supply and delivery at site delivery of best indigenous brand new MCB (Miniature Circuit Breakers) of required capacity as per IS 88228/1978 and its latest amendments and with ISI Mark of 6/10/16/20/25/40 Amps with scalable box.	per 3 poles	20.00	1258.08	25161.60	22.00	22.00	1258.08	27677.76	0.00	1258.08	0.00	27677.76	0.00	2516.16	As per site condition
31	Earth work excavation for pipelines/cables by Manual means upto 600 mm trench width, as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter, including dressing of excavated surfaces, disposing off or leveling the excavated earth or sorting & stacking the selected earth for reuse in a radius of 50 m. Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering and lift upto 1.5 m including cost of labour, tools, usage& other appurtenances required to complete the work and as per the directions of the Engineer-in-charge of the work	Cum	1680.75	529.49	889940.32	1304.69	1304.69	529.49	690817.98	0.00	529.49	0.00	690817.98	199122.34	0.00	As per site condition
32	Providing and installing at site of work 6 Kg/m2: 63mm(weight of pipe -0.662 kg) P.V.C. pipes including cost of pipes and specials and labour, including lowering into trenches, laying true to line, level and perfect linking at joints leak proof including jointing of approved type with all labour charges and all lift charges, handling charges including encasing the pipe around to a depth not less than 15 cms with gravel or selected earth available from the excavation etc. complete and as per the directions of the Engineer-in-charge of the work	mtr	4980.00	13.82	68823.60	0.00	0.00	13.82	0.00	0.00	13.82	0.00	0.00	68823.60	0.00	As per site condition
33	Refilling available earth around trenches/pipelines, cables in layers not exceeding 20 cms in depth, compacting each deposited layer by ramming after watering with a lead upto 50 m , and lift upto 1.5 m. Including cost of all labour complete as per specifications and as per the directions of the Engineer-in-charge of the work	Cum	896.40	175.04	156905.86	829.98	829.98	175.04	145279.70	0.00	175.04	0.00	145279.70	11626.16	0.00	As per site condition
34	Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam specification including premixing the Material with water at OMC in mechanical mix plant carriage of mixed Material by tipper to site, laying in uniform layers with paver/grader in sub-base / base course on well prepared surface and compacting with vibratory roller to achieve the desired density	Cum	672.30	2799.44	1882063.51	667.94	667.94	2799.44	1869869.15	0.00	2799.44	0.00	1869869.15	12194.36	0.00	As per site condition
35	Providing and laying Bituminous Concrete with 40/60 TPH capacity hot mix plant using crushed aggregates of specified grading, premixed with bituminous binder VG-30, @ 5.4 per cent of mix and filler, transporting the hot mix to work site, laying with mechanical paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No. 507 complete in all respects	Cum	89.64	11983.00	1074156.12	107.88	107.88	11983.00	1292750.01	0.00	11983.00	0.00	1292750.01	0.00	218593.89	As per site condition
36	Water Tanker (6 KL) (6KL/hr-725, For 10hr 725*10=7250 inclusive of GST)	Day	240.00	7931.00	1903440.00	0.00	0.00	7931.00	0.00	0.00	7931.00	0.00	0.00	1903440.00	0.00	As per site condition
37	Providing Causal Labours (Unskilled mazdoor Heavy)	Day	480.00	703.87	337857.60	0.00	0.00	703.87	0.00	0.00	703.87	0.00	0.00	337857.60	0.00	As per site condition
38	Water Charges as BWSSB Rates 6000 ltr Tanker.Approved Rates By BWSSB	1.00	1440.00	537.00	773280.00	0.00	0.00	537.00	0.00	0.00	537.00	0.00	0.00	773280.00	0.00	As per site condition
	Total Constrution Cost								**23231907.15**			**0.00**	**23231907.15**	**4175553.35**	**2003729.29**	
	EIRL															

date of issuing work order.

Sl. No.	Description	Unit	Qty. as per Schedule-B			Total Qty as per Executed	Qty upto 125%			Qty above 125%			Total Amount as per Executed	Savings	Excess	Remarks
			Qty	Rate	Amount		QTY	Rate	Amount	QTY	Rate	Amount				
	EIRL															
E1	Providing PVC ringtite pipes conforming to IS 4985:2000 with latest amendments and conveying to worksite, rolling and lowering into trenches, laying true to line and level and perfect linking at joints, testing and commissioning, including loading unloading at both destinations and cuts of pipes wherever necessary including jointing of PVC pipes and specials (excluding cost of specials) with jointing of approved type, with all labour with all lead & lift including encasing the pipe alround to a depth of not less than 15 cms. with soft gravel or selected earth available from the excavation etc. complete and giving necessary hydraulic test to the required pressure as per ISS (Contractor will make his own arrangements for procuring water for testing) etc. complete For:PVC pipes 63mm dia., 6 kg/sqcm & class 3	Mtr								3977.60	176.13	700558.58	700558.58		700558.58	As per site condition
E2	Dismantling of cement concrete pavement by mechanical means using pneumatic tools, breaking to pieces not exceeding 0.02 m3 in volume and stock piling at designated locations and disposal of dismantled materials and stacking serviceable and unserviceable materials separatel	Cum'								127.49	615.89	78522.77	78522.77		78522.77	As per site condition
E3	Providing and constructing un-reinforced plain cement concrete pavement, thickness as per design, over a prepared sub base, with 43 grade cement or any other type as per Clause 1501.2.2 M30 (Grade), coarse and fine aggregates conforming to IS:383:2016:, maximum size of coarse aggregate not exceeding 25 mm, mixed in a concrete mixer of not less than 0.2 cum capacity and appropriate weigh batcher using approved mix design, laid in approved fixed side formwork (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the formwork as per drawing), spreading the concrete with shovels, rakes, compacted using needle, screed and plate vibrators and finished in continuous operation including construction joints, primer, sealant, curing of concrete slabs for 14-days, and water finishing to lines and grade as per drawing and technical specification clause 1501 with all lead, lifts, loading & unloading charges, cost and conveyance of all materials, labour, equipments etc., complete. as per the directions of the Engineer-in-charge of the work	Cum'								97.48	7388.54	720243.95	720243.95		720243.95	As per site condition
	Total Constrution Cost				**25403744.00**				**23231907.15**			**1499325.30**	**24731232.45**	**4175553.35**	**3503054.58**	

SANCTIONED ESTIMATE AMOUNT	30000000
SANCTIONED TENDER AMOUNT	25403744.00
WORK SLIP AMOUNT	2003729.29
% OF WORK SLIP COMP TO SANCTIONED TENDER COST	**7.89**
EIRL AMOUNT	1499325.30
% OF EIRL COMP TO SANCTIONED TENDER COST	**5.90**
SAVINGS	672498.77

Assistant Engineer

Asst.Executive Engineer
ಸಹಾಯಕ ಕಾರ್ಯ ನಿರ್ವಾಹಕ ಅಭಿಯಂತರರು
ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ.
ಜಿ.ಬಿ.ಎ.ಎ. ಬೆಂಗಳೂರು-106

Executive Engineer
ಮುಖ್ಯ ಅಭಿಯಂತರರು
ಯಲಹಂಕ ವಲಯ
ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

of issuing work order.

work is 180